

Patent
264/217

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Markus Schweitzer, et al.) Group Art Unit: Not Assigned
Serial No.: 09/910,469) Examiner: Not Assigned
Filed: July 19, 2001)
For: **SORTING AND IMMOBILIZATION**)
SYSTEM FOR NUCLEIC ACIDS USING)
SYNTHETIC BINDING SYSTEMS)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, DC 20231

Sir:

In accordance with 37 CFR §§ 1.97 and 1.98, the items identified in this Information Disclosure Statement ("IDS") are brought to the attention of the Office. The items are listed on the attached form PTO-1449 and copies are enclosed for the convenience of the Examiner.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicant is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicant as such.

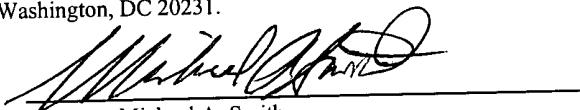
This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is (1) within three months of the filing date of the application, which is not a continued prosecution application filed under § 1.53(d); or (2) within three months of entry of the national stage as set forth in 37 CFR § 1.491; or (3) before the mailing of a first Office action on the merits; or (4) before the mailing of a first

OC-94626.1

CERTIFICATE OF MAILING (37 C.F.R. §1.10)

I hereby certify that I have a reasonable basis to expect that this paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as 'Express Mail - Post Office To Addressee' in an envelope addressed to Commissioner for Patents, Washington, DC 20231.

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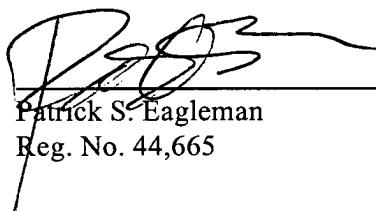
Micheal A. Smith

Office action after filing a request for continued examination under § 1.114. Thus, no fee is required. However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and charge the fee due under 37 CFR §1.17(p) to the deposit account referenced below.

The Commissioner is authorized to charge any fees required by the filing of these papers, and to credit any overpayment to Lyon & Lyon's Deposit Account No. **12-2475**.

Respectfully submitted,

LYON & LYON LLP

By: 

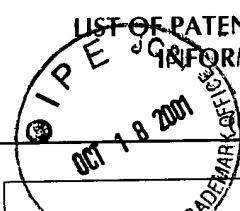
Patrick S. Eagleman
Reg. No. 44,665

Dated: October 16, 2001



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LYON & LYON LLP
633 W. Fifth Street, Suite 4700
Los Angeles, CA 90071

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
AA	5,763,175	06/09/1998	Brenner	435	6	11/17/1995
AB	5,605,662	02/25/1997	Heller et al.	422	68.1	11/01/1993
AC	6,051,380	04/18/2000	Sosnowski et al.	435	6	12/05/1997

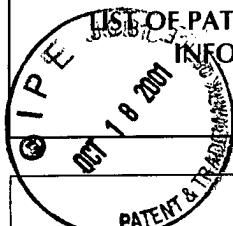
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
AD	86/07387	12/18/1986	WIPO			
AE	0 305 145 A2	03/01/1989	European Patent Office			
AF	0 360 940 A2	04/04/1990	European Patent Office			
AG	Hei 3-151900	06/28/1991	Japan			X
AH	93/13223	07/08/1993	WIPO			
AI	93/13225	07/08/1993	WIPO			
AJ	93/25563	12/23/1993	WIPO			
AK	0 360 940 B1	01/31/1996	European Patent Office			
AL	97/32999	09/12/1997	WIPO			
AM	97/43232	11/20/1997	WIPO			
AN	98/25943	06/18/1998	WIPO			
AO	99/15509	04/01/1999	WIPO			
AP	99/15539	04/01/1999	WIPO			
AQ	99/15540	04/01/1999	WIPO			
AR	99/15541	04/01/1999	WIPO			
AS	99/15542	04/01/1999	WIPO			
AT	99/15893	04/01/1999	WIPO			
AU	00/11011	03/02/2000	WIPO			

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 Draw line through citation if not in conformance and not considered. Include a copy of this form with next
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INFORMATION DISCLOSURE STATEMENT
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APPLICANT:
Markus Schweitzer et al.

FILING DATE: July 19, 2001 GROUP: Not Assigned

FOREIGN PATENT DOCUMENTS

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BA	00/58516	10/05/2000	WIPO				
BB	00/39581	07/06/2000	WIPO				
BC	00/60124	10/12/2000	WIPO				
BD	01/07657 A1	02/01/2001	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

BE	Beier, M. et al., "Chemical Etiology of Nucleic Acid Structure: Comparing Pentopyranosyl-(2'→4') Oligonucleotides with RNA", <i>Science</i> , Vol. 283, pp. 699-703, Jan. 29, 1999.
BF	Shchepinov, M.S. et al., "Oligonucleotide dendrimers: synthesis and use as polylabelled DNA probes", <i>Nucleic Acids Research</i> , Vol. 25, No. 22, pp. 4447-4454, 1997.
BG	Gilles, P.N. et al., "Single nucleotide polymorphic discrimination by an electronic dot blot assay on semiconductor microchips", <i>Nature Biotechnology</i> , Vol. 17, pp. 365-370, Apr. 17, 1999.
BH	Liu, J. et al., "Template-directed photoligation of oligodeoxyribonucleotides via 4-thiothymidine", <i>Nucleic Acids Research</i> , Vol. 26, No. 13, pp. 3300-3304, 1998.
BI	Green, N. M., "Advances in Protein Chemistry", pp. 85-132, 1975.
BJ	Chilkoti, A., et al., "Molecular Origins of the Slow Streptavidin – Biotin Dissociation Kinetics", <i>J. Am. Chem. Soc.</i> Vol. 117, pp. 10622-10628, 1995
BK	Bhu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disulfide bonds", <i>Nucleic Acids Research</i> , Vol. 16, No. 9, pp. 3671-3691, 1988.
BL	Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", <i>J. Am. Chem. Soc.</i> , Vol. 114, pp. 9197-9198, 1992.
BM	Gryaznov, S.M. et al., "Chemical Ligation of Oligonucleotides in the Presence and Absence of a Template", <i>J. Am. Chem. Soc.</i> , Vol. 115, pp. 3808-3809, 1993.
BN	Uhlmann et al., "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chemical Abstracts</i> , Vol. 90, No. 4, pp. 543-584, 1990.
BO	Pitsch, S. et al., "147. Why Pentose- and Not Hexose-Nucleic Acids?" <i>Helv. Chim. Acta</i> , Vol. 76, pp. 2161-2183, 1993.
BP	Pitsch, S. et al., "122. Pyranosyl-RNA ('p-RNA'): Base-Pairing Selectivity and Potential to Replicate", <i>Helv. Chim. Acta</i> , Vol. 78, pp. 1621-1635, 1995.
BQ	Schlönvogt, I. et al., "188. Pyranosyl-RNA ('p-RNA'): NMR and Molecular-Dynamics Study of the Duplex Formed by Self-pairing of Ribopyranosyl-(C-G-A-A-T-T-C-G)" <i>Helv. Chim. Acta</i> , Vol. 79, pp. 2316-2345, 1996.
BR	Bolli, M. et al., "131. Pyranosyl-RNA: Further Observations on Replication", <i>Helv. Chim. Acta</i> , Vol. 80, pp. 1901-1951, 1997.
BS	Westin, L.. et al., "Antimicrobial Resistance and Bacterial Identification Utilizing a Microelectronic Chip Array", <i>J. Clinical Microbiol.</i> , Vol. 39, No. 3, pp. 1097-1104, 2001.

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